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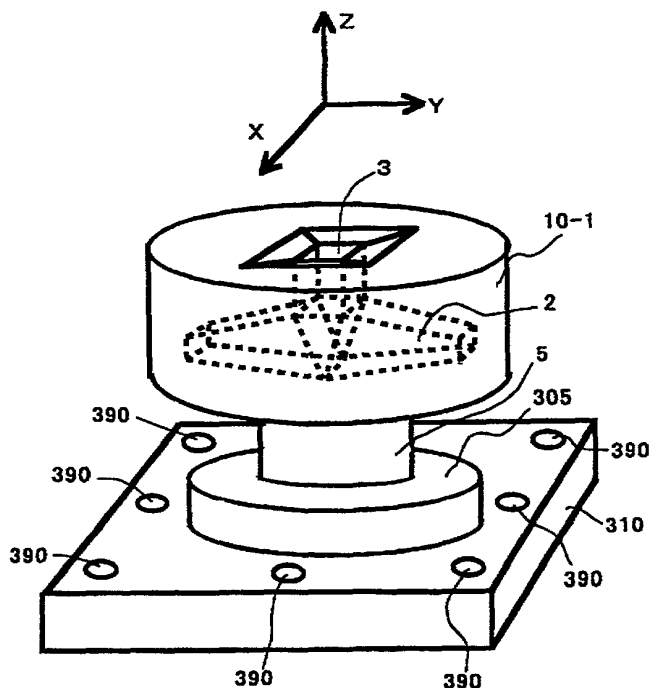
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(54) Title: CENTRIFUGAL SEPARATOR AND SAMPLE PREPARATION DEVICE USING THE SEPARATOR

(54) 発明の名称: 遠心分離機及びこれを用いる試料調製装置



(57) Abstract: A centrifugal separator, comprising a centrifugal rotor (10-1) having a sample separating chamber (2) for centrifugally separating samples contained in a sample solution provided therein, an upper part opening (3) leading to the sample separating chamber provided at the upper part thereof and rotationally symmetrical axis, a member connectable to the opening, and a rotationally driving means which rotates the member so as to rotate the centrifugal rotor about a rotating axis in the first direction with the direction of the rotationally symmetrical axis assumed to be the first direction, wherein, when two directions crossing perpendicular to the first direction are assumed to be 2nd and 3rd directions, the length of the sample separating chamber in the 3rd direction is larger than the length of the sample separating chamber in the 2nd direction, whereby, because one type of sample is handled by one centrifugal rotor, a discrete processing (sequential processing) suitable for a conveyor line production which can be performed independently of each other for each sample is enabled, and the automatization of sample preparation including the centrifugally separating operation can be facilitated.

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ABSTRACT OF THE DISCLOSURE

A centrifugal separator of the invention has a centrifugal rotor (10-1), with symmetric rotation axes, having single sample separation chamber in it for
5 centrifuging samples contained in sample solutions, an upper opening passing through to said sample separation chamber in the upper part, members of frameworks capable of being coupled to said upper opening, a rotation driving means, assuming that the direction of
10 said symmetric rotation axis is the first direction, for driving said centrifugal rotor around said rotation axis in the first direction, wherein assuming that two directions intersecting with said first direction are the second and third directions, the length of said
15 sample preparation chamber in said third direction is longer than the length of said sample preparation chamber in said second direction. Since one kind of sample is handled in one centrifugal rotor, the centrifugal separator of the invention allows discrete
20 treatment (sequential treatment) suitable for the flow system, in which individual samples can be treated independently, making easy automation of sample preparation revolving centrifugation.